

#12 05-11-d Page 1 of 7
RECEIVED

MAY 10 2001

1648

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 05/01/2001

PATENT APPLICATION: US/09/555,780B

TIME: 13:53:35

Input Set : A:\es.txt

Output Set: N:\CRF3\05012001\I555780B.raw

ENTERED

3 <110> APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE M
4 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (C.N.
5 INSTITUT PASTEUR DE LILLE
6 GRAS-MASSE, H,lsne
7 BOSSUS, Marc
8 LIPPENS, Guy
9 WIERUSZESKI, Jean-Michel
10 TARTAR, Andr,
11 GUILLET, Jean-G,rard
12 BOURGAULT-VILLADA, Isabelle
14 <120> TITLE OF INVENTION: Mixed lipopeptide micelles for inducing an immune
15 response and their therapeutic uses.
17 <130> FILE REFERENCE: Lipopeptides-INSERM
C--> 19 <140> CURRENT APPLICATION NUMBER: US/09/555,780B
C--> 20 <141> CURRENT FILING DATE: 2000-06-02
22 <150> PRIOR APPLICATION NUMBER: FR9715246
23 <151> PRIOR FILING DATE: 1997-12-03
25 <160> NUMBER OF SEQ ID NOS: 285
27 <170> SOFTWARE: PatentIn Ver. 2.1
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 14
31 <212> TYPE: PRT
32 <213> ORGANISM: Clostridium tetani
34 <400> SEQUENCE: 1
35 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
36 1 5 10
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 33
42 <212> TYPE: PRT
43 <213> ORGANISM: Human immunodeficiency virus
45 <220> FEATURE:
46 <221> NAME/KEY: LIPID
47 <222> LOCATION: (33)
48 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
50 <400> SEQUENCE: 2
51 Val Gly Phe Pro Val Thr Pro Gln Val Pro Leu Arg Pro Met Thr Tyr
52 1 5 10 15
54 Lys Ala Ala Val Asp Leu Ser His Phe Leu Lys Glu Lys Gly Gly Leu
55 20 25 30
57 Lys
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 32
65 <212> TYPE: PRT
66 <213> ORGANISM: Human immunodeficiency virus
68 <220> FEATURE:
69 <221> NAME/KEY: LIPID
70 <222> LOCATION: (32)

RAW SEQUENCE LISTING

DATE: 05/01/2001

PATENT APPLICATION: US/09/555,780B

TIME: 13:53:35

Input Set : A:\es.txt

Output Set: N:\CRF3\05012001\I555780B.raw

```

71 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
73 <400> SEQUENCE: 3
74 Thr Gln Gly Tyr Phe Pro Asp Trp Gln Asn Tyr Thr Pro Gly Pro Gly
75 1 5 10 15
77 Val Arg Tyr Pro Leu Thr Phe Gly Trp Cys Tyr Lys Leu Val Pro Lys
78 20 25 30
84 <210> SEQ ID NO: 4
85 <211> LENGTH: 25
86 <212> TYPE: PRT
87 <213> ORGANISM: Human immunodeficiency virus
89 <220> FEATURE:
90 <221> NAME/KEY: LIPID
91 <222> LOCATION: (25)
92 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
94 <400> SEQUENCE: 4
95 Glu Trp Arg Phe Asp Ser Arg Leu Ala Phe His His Val Ala Arg Glu
96 1 5 10 15
98 Leu His Pro Glu Tyr Phe Lys Asn Lys
99 20 25
103 <210> SEQ ID NO: 5
104 <211> LENGTH: 33
105 <212> TYPE: PRT
106 <213> ORGANISM: Human immunodeficiency virus
108 <220> FEATURE:
109 <221> NAME/KEY: LIPID
110 <222> LOCATION: (33)
111 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
113 <400> SEQUENCE: 5
114 Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly His Gln Ala Ala Met
115 1 5 10 15
117 Gln Met Leu Lys Glu Thr Ile Asn Glu Ala Ala Glu Trp Asp Arg
118 20 25 30
120 Lys
125 <210> SEQ ID NO: 6
126 <211> LENGTH: 33
127 <212> TYPE: PRT
128 <213> ORGANISM: Human immunodeficiency virus
130 <220> FEATURE:
131 <221> NAME/KEY: LIPID
132 <222> LOCATION: (33)
133 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
135 <400> SEQUENCE: 6
136 Asn Pro Pro Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu
137 1 5 10 15
139 Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp
140 20 25 30
142 Lys
147 <210> SEQ ID NO: 7
148 <211> LENGTH: 34

```

RAW SEQUENCE LISTING

DATE: 05/01/2001

PATENT APPLICATION: US/09/555,780B

TIME: 13:53:35

Input Set : A:\es.txt

Output Set: N:\CRF3\05012001\I555780B.raw

```

149 <212> TYPE: PRT
150 <213> ORGANISM: Human immunodeficiency virus
152 <220> FEATURE:
153 <221> NAME/KEY: LIPID
154 <222> LOCATION: (34)
155 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
157 <400> SEQUENCE: 7 '
158 Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Ile His Ile Gly Pro Gly
159 1 5 10 15
161 Arg Ala Phe Tyr Ala Thr Gly Glu Ile Ile Gly Asp Ile Arg Gln Ala
162 20 25 30
164 His Lys
169 <210> SEQ ID NO: 8
170 <211> LENGTH: 10
171 <212> TYPE: PRT
172 <213> ORGANISM: Human immunodeficiency virus
174 <400> SEQUENCE: 8
175 Arg Pro Asn Asn Asn Thr Arg Lys Ser Ile
176 1 5 10
180 <210> SEQ ID NO: 9
181 <211> LENGTH: 9
182 <212> TYPE: PRT
183 <213> ORGANISM: Human immunodeficiency virus
185 <400> SEQUENCE: 9
186 Pro Pro Ile Pro Val Gly Glu Ile Tyr
187 1 5
191 <210> SEQ ID NO: 10
192 <211> LENGTH: 10
193 <212> TYPE: PRT
194 <213> ORGANISM: Human immunodeficiency virus
196 <400> SEQUENCE: 10
197 Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys
198 1 5 10
202 <210> SEQ ID NO: 11
203 <211> LENGTH: 10
204 <212> TYPE: PRT
205 <213> ORGANISM: Human immunodeficiency virus
207 <400> SEQUENCE: 11
208 Leu Gly Leu Asn Lys Ile Val Arg Met Tyr
209 1 5 10
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 10
215 <212> TYPE: PRT
216 <213> ORGANISM: Human immunodeficiency virus
218 <400> SEQUENCE: 12
219 Gln Val Pro Leu Arg Pro Met Thr Tyr Lys
220 1 5 10
224 <210> SEQ ID NO: 13
225 <211> LENGTH: 8

```

RAW SEQUENCE LISTING

DATE: 05/01/2001

PATENT APPLICATION: US/09/555,780B

TIME: 13:53:35

Input Set : A:\es.txt

Output Set: N:\CRF3\05012001\I555780B.raw

226 <212> TYPE: PRT
227 <213> ORGANISM: Human immunodeficiency virus
229 <400> SEQUENCE: 13
230 Val Pro Leu Arg Pro Met Thr Tyr
231 1 5
235 <210> SEQ ID NO: 14
236 <211> LENGTH: 8
237 <212> TYPE: PRT
238 <213> ORGANISM: Human immunodeficiency virus
240 <400> SEQUENCE: 14
241 Ala Val Asp Leu Ser His Phe Leu
242 1 5
246 <210> SEQ ID NO: 15
247 <211> LENGTH: 9
248 <212> TYPE: PRT
249 <213> ORGANISM: Human immunodeficiency virus
251 <400> SEQUENCE: 15
252 Ala Val Asp Leu Ser His Phe Leu Lys
253 1 5
257 <210> SEQ ID NO: 16
258 <211> LENGTH: 11
259 <212> TYPE: PRT
260 <213> ORGANISM: Human immunodeficiency virus
262 <400> SEQUENCE: 16
263 Thr Gln Gly Tyr Phe Pro Asp Trp Gln Asn Tyr
264 1 5 10
268 <210> SEQ ID NO: 17
269 <211> LENGTH: 9
270 <212> TYPE: PRT
271 <213> ORGANISM: Human immunodeficiency virus
273 <400> SEQUENCE: 17
274 Tyr Phe Pro Asp Trp Gln Asn Tyr Thr
275 1 5
279 <210> SEQ ID NO: 18
280 <211> LENGTH: 10
281 <212> TYPE: PRT
282 <213> ORGANISM: Human immunodeficiency virus
284 <400> SEQUENCE: 18
285 Thr Pro Gly Pro Gly Val Arg Tyr Pro Leu
286 1 5 10
290 <210> SEQ ID NO: 19
291 <211> LENGTH: 8
292 <212> TYPE: PRT
293 <213> ORGANISM: Human immunodeficiency virus
295 <400> SEQUENCE: 19
296 Arg Tyr Pro Leu Thr Phe Gly Trp
297 1 5
301 <210> SEQ ID NO: 20
302 <211> LENGTH: 8

RAW SEQUENCE LISTING

DATE: 05/01/2001

PATENT APPLICATION: US/09/555,780B

TIME: 13:53:35

Input Set : A:\es.txt

Output Set: N:\CRF3\05012001\I555780B.raw

```

303 <212> TYPE: PRT
304 <213> ORGANISM: Human immunodeficiency virus
306 <400> SEQUENCE: 20
307 Tyr Pro Leu Thr Phe Gly Trp Cys
308   1                               5
312 <210> SEQ ID NO: 21
313 <211> LENGTH: 9
314 <212> TYPE: PRT
315 <213> ORGANISM: Human immunodeficiency virus
317 <400> SEQUENCE: 21
318 Ala Phe His His Val Ala Arg Glu Leu
319   1                               5
323 <210> SEQ ID NO: 22
324 <211> LENGTH: 8
325 <212> TYPE: PRT
326 <213> ORGANISM: Human immunodeficiency virus
328 <400> SEQUENCE: 22
329 Phe Leu Lys Glu Lys Gly Gly Leu
330   1                               5
334 <210> SEQ ID NO: 23
335 <211> LENGTH: 27
336 <212> TYPE: PRT
337 <213> ORGANISM: Simian immunodeficiency virus
339 <220> FEATURE:
340 <221> NAME/KEY: LIPID
341 <222> LOCATION: (27)
342 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
345 <400> SEQUENCE: 23
346 Ser Val Arg Pro Lys Val Pro Leu Arg Ala Met Thr Tyr Lys Leu Ala
347   1                               5               10               15
349 Ile Asp Met Ser His Phe Ile Lys Glu Lys Lys
350           20               25
354 <210> SEQ ID NO: 24
355 <211> LENGTH: 24
356 <212> TYPE: PRT
357 <213> ORGANISM: Simian immunodeficiency virus
359 <220> FEATURE:
360 <221> NAME/KEY: LIPID
361 <222> LOCATION: (24)
362 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
364 <400> SEQUENCE: 24
365 Glu Lys Gly Gly Leu Glu Gly Ile Tyr Tyr Ser Ala Arg Arg His Arg
366   1                               5               10               15
368 Ile Leu Asp Met Tyr Leu Glu Lys
369           20
373 <210> SEQ ID NO: 25
374 <211> LENGTH: 25
375 <212> TYPE: PRT
376 <213> ORGANISM: Simian immunodeficiency virus

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/555,780B

DATE: 05/01/2001

TIME: 13:53:36

Input Set : A:\es.txt

Output Set: N:\CRF3\05012001\I555780B.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application Number
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:377 M:283 W: Missing Blank Line separator, <220> field identifier